

Abstract

A backwashable filtering device for thermoplastic plastics material comprises a housing (1) in which at least one feed channel (2) is provided for the material to be filtered and at least one delivery channel (3) is provided for the filtered material. At least one carrying body (4) is arranged in the housing, carries at least two nests of screens (8, 9) and is displaceable in the housing between a filtering position and at least one backwashing position. In the filtering position, distribution chambers (14, 15) arranged on the inflow side of the nests of screens (8, 9) are fluidically connected to at least one feed channel (2), and collecting chambers arranged on the outflow side of the nests of screens (8, 9) are fluidically connected to at least one delivery channel (3). In the backwashing position of the carrying body (4), filtered material passes from the collecting chamber (16, 17) of one nest of screens (8, 9), through a backwashing channel (23) arranged in the carrying body (4) and into the collecting chamber (16, 17) of another nest of screens (8, 9) to be cleaned. When the outflow channel of this other nest of screens (8, 9) is closed, this filtered material is discharged together with the impurities from the backwashed nest of screens into a backwashing outlet channel (38) via the distribution chamber. At least one control body (31), which is displaceable in the housing (1) relative to the carrying body (4), is associated with each nest of screens (8, 9) for the backwashing of this nest of screens (8, 9) portion by portion. Each control body (31) forms a discharge channel (36) which, in the backwashing position, is fluidically connected to at least one backwashing outlet channel (38) via at least one control opening (37).

(Fig. 2)